

NTP Board of Scientific Counselors Technical Reports Review Subcommittee

Report from the Meeting held on November 19, 2009

Raymond Novak, Ph.D. Subcommittee Chair





1-Bromopropane

Production of pesticides, quaternary ammonium compounds, flavors and fragrances, pharmaceuticals, and other chemicals; degreasing and cleaning electronics; solvent for resins; replacement for ozone-depleting refrigerants

Based on a 2-year inhalation study, the subcommittee approved the conclusions with a 9-0-0 vote

Sex/Species	Evidence	Neoplastic lesions
Male Rats	SE	Adenomas of the large intestine; increased incidence of epithelial neoplasms of the skin (keratoacanthoma, squamous cell carcinoma, basal cell neoplasm)
Female Rats	CE	Adenomas of the large intestine
Male Mice	NE	-
Female Mice	CE	Alveolar/bronchiolar neoplasms

CE = clear evidence; SE = some evidence; NE = no evidence



Ginseng

Herb widely used in herbal remedies, dietary supplements, cosmetics

Based on a 2-year gavage study, the subcommittee approved the conclusions with a 6-4-0 vote

Sex/Species	Evidence	Neoplastic lesions
Male Rats	NE	-
Female Rats	NE	-
Male Mice	NE	-
Female Mice	NE	-



Pulegone

Used for flavoring for foods, drinks, and dental products, as fragrance agents, and in herbal medicines $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

Based on a 2-year gavage study, the subcommittee approved the conclusions with a 6-4-0 vote

Sex/Species	Evidence	Neoplastic lesions
Male Rats	NE	<u>*</u>
Female Rats	CE	Urinary bladder neoplasms
Male Mice	CE	Liver neoplasms (hepatocellular adenoma, hepatocellular carcinoma, or hepatoblastoma)
Female Mice	CE	Liver neoplasms (hepatocellular adenoma, hepatocellular carcinoma, or hepatoblastoma)

CE = clear evidence; NE = no evidence



Milk Thistle Extract

Herb widely used in herbal medicines

Based on a 2-year feeding study, the subcommittee approved the report's conclusions with a 10-0-0 vote

Sex/Species	Evidence	Neoplastic lesions
Male Rats	NE	
Female Rats	NE	
Male Mice	NE	=
Female Mice	NE	<u>=</u>



Bis(2-Chloroethoxy)methane

Used as a solvent and the starting agent in the production of fungicides and polysulfide polymers

Based on a 2-year dermal exposure study, the subcommittee approved the report's conclusions with a 7-0-0 vote

Sex/Species	Evidence	Neoplastic lesions
Male Rats	NE	
Female Rats	NE	-
Male Mice	NE	¥
Female Mice	NE	-

Diethylamine

Used mainly as a chemical intermediate to produce the corrosion inhibitor N,N-diethylethanolamine and to produce pesticides and insect repellants and in rubber processing

Based on a 2-year inhalation study, the subcommittee approved the conclusions with a 8-0-0 vote

Sex/Species	Evidence	Neoplastic lesions
Male Rats	NE	_*
Female Rats	NE	-
Male Mice	NE	¥
Female Mice	NE	-

^{*} Male rats - nonneoplastic lesions in the cornea